

What is claimed is:

1. An LED device comprising:
a substrate;
a blue LED mounted on the substrate for emitting blue
5 light;
a white light emitting LED device having a transparent
resin covering the blue LED and including phosphor particles
each of which has a wave length converting characteristic
to convert blue light to yellow light if the particle contacts
10 with the blue light, thereby emitting white light due to the
mixing of the blue light and the yellow light;
a red light emitting LED device having a substrate,
a red LED mounted on the substrate for emitting red light,
and a transparent resin covering the red LED; and
15 the red LED device being disposed so that emitted red
light mixes with the white light emitted from the white light
emitting LED device.
2. The LED device according to claim 1 wherein the
white light emitting LED device and the red light emitting
20 LED device are mounted on a same substrate.
3. The LED device according to claim 2 wherein the
blue light emitting LED and the red light emitting LED are
covered by a single transparent resin including phosphor
particles.
- 25 4. The LED device according to claim 1 wherein the
phosphor particles are particles of YAG.
5. The LED device according to claim 1 wherein the
phosphor particle is green phosphor.

6. The LED device according to claim 1 wherein the phosphor particle is one of phosphate, silicate and aluminate.

7. The LED device according to claim 1 wherein the LED device is mounted in a case.

5 8. The LED device according to claim 1 wherein the white light emitting LED device and the red light emitting LED device are disposed on an incident surface of an illuminating panel.